WHAT IS CLAIMED IS:

1. A biochip scanner device comprising:

a light source, which emits a light beam;

a light processing unit, which focuses the light beam onto a biochip to excite fluorescence from a fluorescent target on the biochip;

a filter, which filters off the light beam from a light source;

a photomultiplier tube, which detects and converts the fluorescence into an electrical signal; and

an output device, which directly outputs/displays the electrical signal detected by the photomultiplier tube.

2. The biochip scanner device according to claim **1**, wherein the light processing unit comprises:

a beam splitter for redirecting the light beam through a focusing lens, which focuses the light beam onto the biochip and excites fluorescence from a fluorescent target on the biochip.

3. The biochip scanner device according to claim **2**, wherein the light processing unit further comprises another focusing lens between the light source and the beam splitter to enhance the focus effect.

4. The biochip scanner device according to claim **1** further comprising a platform for holding the biochip and moving in two different directions.

5. The biochip scanner device according to claim **4** further comprising a computer, wherein the computer comprises at least one set of parameters for controlling the directions of movement of the platform.

6. The biochip scanner device according to claim **5,** wherein the computer comprises at least one set of parameters for outputting/displaying the signal detected by the photomultiplier tube.

7. The biochip scanner device according to claim **6,** wherein the computer comprises at least one set of parameters for converting the signal detected by the photomultiplier tube into image data.

8. A biochip scanner device comprising:

a light source, which emits a light beam;

a beam splitter for redirecting the light beam through a focusing lens, which focuses the light beam onto the biochip and excites fluorescence from a fluorescent target on the biochip;

a filter, which filters off the light beam from a light source;

a photomultiplier tube, which detects and converts the fluorescence into an electrical signal; and

an output device, which directly outputs/displays the electrical signal detected by the photomultiplier tube.

9. The biochip scanner device according to claim **8** further comprising another focusing lens between the light source and the beam splitter to enhance the focus effect.

10. The biochip scanner device according to claim **8** further comprising a platform for holding the biochip and moving in two different directions.

11. The biochip scanner device according to claim **8** further comprising a computer, wherein the computer comprises at least one set of parameters for controlling the directions of movement of the platform.

12. The biochip scanner device according to claim **11,** wherein the computer comprises at least one set of parameters for outputting/displaying the signal detected by the photomultiplier tube.

13. The biochip scanner device according to claim **12,** wherein the computer comprises at least one set of parameters for converting the signal detected by the photomultiplier tube into image data.